

- 1 1. A method, comprising:
2 identifying indicia associated with a plurality of entity types;
3 identifying at least one relationship affecting interactions between the plurality of entity
4 types;
5 identifying a plurality of transactions associated with at least one of the interactions;
6 organizing the plurality of transactions into at least one transaction sequence; and
7 associating the identified indicia, the at least one identified relationship, and the at least
8 one transaction sequence to form a semantic network, wherein an instance of the semantic
9 network is formable based, at least in part, on a detection of the at least one interaction.
- 1 2. The method of claim 1, wherein the plurality of entity types correspond to at least two
2 different entities interacting in an industry.
- 1 3. The method of claim 2, wherein the industry is a service-based industry and the at least
2 two different entities correspond to at least two of a service provider, a service implementer, a
3 service purchaser, a service beneficiary, a service maintainer, and a service regulator.
- 1 4. The method of claim 2, wherein the industry relates to a health care industry and the at
2 least two different entities correspond to at least two of a health care subscriber, a health care
3 provider, a health care practitioner, a health care beneficiary, and a health care company.
- 1 5. The method of claim 2, wherein the industry is a product-based industry and the at least
2 two different entities correspond to at least two of a product manufacturer, a product distributor,

3 a product reseller, a product marketer, a product seller, a product purchaser, a product
4 maintainer, and a product regulator.

1 6. The method of claim 1, further comprising:
2 storing the identified indicia in a data structure; and
3 assigning a version number to the data structure.

1 7. The method of claim 1, further comprising:
2 receiving the identified indicia from an electronic data interchange system.

1 8. The method of claim 1, further comprising:
2 receiving the identified indicia from at least one of an application program interface, a
3 user interface, and a software editing tool.

1 9. The method of claim 1, further comprising:
2 representing the identified indicia in a natural language format exhibiting a fixed context
3 and a fixed grammar.

1 10. The method of claim 9, wherein the fixed grammar exhibits a Backus-Naur format.

1 11. The method of claim 9, wherein the fixed context is based, at least in part, on an industry-
2 specific data structure, the industry-specific data structure being used to identify operations
3 associated with the plurality of transactions.

1 12. The method of claim 9, further comprising:
2 parsing the natural language representation of the identified indicia into a plurality of
3 fields; and

4 mapping at least some of the fields into at least one data structure.

1 13. The method of claim 12, further comprising:

2 assigning a version number to the at least one data structure.

1 14. The method of claim 1, wherein the plurality of entity types correspond to at least two

2 different entities interacting in an industry and the at least one relationship corresponds to at least

3 one contractual provision associated with the at least two different entities.

1 15. The method of claim 1, wherein the at least one interaction is associated with at least one

2 of a request for payment of services performed, a request to authorize proposed services, a

3 request to enroll a service provider, a request to enroll a service purchaser, a request to enroll a

4 service beneficiary, and an adoption of a new contract.

1 16. The method of claim 1, further comprising:

2 forming an electronic message in response to detecting an error associated with the

3 identified indicia.

1 17. The method of claim 1, wherein the identified indicia correspond to a plurality of nodes

2 in the semantic network and the at least one identified relationship corresponds to links

3 interconnecting at least some of the plurality of nodes in the semantic network.

1 18. The method of claim 1, further comprising:

2 querying data structures associated with the semantic network; and

3 forming an electronic document containing at least some of the identified indicia and data

4 associated with the at least one identified relationship in response to the query of the data

- 5 structures, wherein the electronic document is viewable in a natural language format exhibiting a
- 6 fixed context and a fixed grammar.